FAST-ACTION **BATTERY CHARGER**

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FAST-ACTION BATTERY CHARGER

Operating instructions

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TRONIC®

KH 971

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Read the operating instructions carefully before using the appliance for the first time and preserve this booklet for later reference. Pass the manual on to whomsoever might acquire the appliance at a later date.

QUICK BATTERY CHARGER

Intended Use

The Rapid Battery Charger is intended exclusively for ...

- the recharging of Ni-Cd and Ni-MH batteries with the sizes AA/Mignon and AAA/Micro and designated as suitable for rapid charging
- domestic use only, it is not intended for commercial use.

The supplied power adapter is intended for exclusive use with the Rapid Battery Charger.

The supplied vehicle adapter is intended exclusively for...

- utilisation of the Rapid Battery Charger with the 12-V cigar lighter socket of a vehicle
- or in the 12-V on-board power supply socket of a vehicle.

Items supplied

- Rapid Battery Charger
- Power adapter
- Vehicle adapter
- Operating manual
- 8x 2300 mAh Ni-MH-Akkus Typ AA

Description of the appliance

❶ Power adapter connection
❷ Control lamps
❸ Charging slots
❹ Selector switch Ni-MH/Ni-Cd
❺ Power adapter
❻ Vehicle adapter

Technical data

Power adapter

Input:	100-240 V ~ 50 / 60 Hz, 0,7A
Output:	12 V ⎓ 1,5 A

Charging component

Input:	12V ⎓ 1,5 A
Maximum charging current:	
AA / Mignon batteries:	2100 mA Ni-MH; 850 mA Ni-Cd
AAA / Micro batteries:	850 mA Ni-MH; 350 mA Ni-Cd
Operating temperature:	+5 ~ +35 °C
Humidity:	5 ~ 90 % (no condensation)
Dimensions (L x W x H):	118 x 97 x 40 mm
Weight:	ca 129 g

Safety information

- This device has not been designed for use by people (including children) with restricted physical, sensory or intellectual abilities or lack of experience and/or knowledge, unless they are supervised by a responsible person (for their own safety) or have received instructions on how to use the device.
- Children should be supervised to ensure that they do not play with the device.
- In order to avoid the device being switched on unintentionally, remove the adapter from the mains socket after each use and before cleaning.
- Check the device and all parts for visible damage. The device's safety concept can only work if the device is in perfect condition.
- The mains adapter must always be freely accessible so that the device can be separated from the power supply quickly in an emergency.

⚠ *Risk of electric shock!*

- Only connect the device to a properly installed and earthed mains socket. The mains voltage must agree with that stated on the device's specification plate.
- Damaged adapters or mains cables should be exchanged immediately by an authorised technician or the Customer Service in order to avoid risks.
- Connection cables or devices that do not work perfectly or have been damaged should be repaired or exchanged immediately by Customer Services.

Never immerse the device in water! Simply wipe it with a slightly damp cloth.

- Do not expose the device to rain or use it in a damp or wet environment.
- Ensure that the connection cable is never wet or damp when in use.
- You must not open or repair the device's housing. This can be dangerous and renders the warranty null and void.

- Protect the device from moisture and sprayed water. Therefore do not place any objects filled with water (e.g. vases) on or near the device.

⚠ *Risk of fire!*

- Do not use the device near hot surfaces.
- Do not set the device up where it is exposed to direct sunlight. This could cause it to overheat and damage it beyond repair.
- Never leave the device unattended during operation.
- Never cover the device's ventilation slots when it is switched on.
- Do not place open flames, such as candles, on or near the device.

- Due to the charging current, only batteries with appropriate capacities may be charged:

  - Ni-MH AA min. 2300mAh / AAA min. 800mAh
  - Ni-Cd AA min. 800mAh / AAA min. 300mAh

  Should an attempt be made to charge batteries with significantly lower capacities, the batteries could be destroyed.
- Charge exclusively rapid rechargable batteries of the types "Ni-Cd“ and "Ni-MH". NEVER recharge batteries of other types or non-rechargable batteries.
  These are not suitable for recharging. Batteries not suitable for rapid recharging could overheat and explode. This could irreparably damage the Rapid Battery Charger and the inserted batteries. There is also a risk of personal injury!
- Use the Rapid Battery Charger exclusively with the supplied power adapter resp. vehicle-adapter. Do not use the power adapter and the vehicle-adapter with appliances other than the Rapid Battery Charger. Should you do so, the Rapid

Battery Charger, vehicle-adapter, power adapter, batteries and the other appliance could be irreparably damaged.

⚠ *Risk of injury*

- Keep children away from the connection cable and device. Children frequently underestimate the danger of electrical devices.
- If the device has fallen down or is damaged it must no longer be used. Have the device checked by a qualified specialist and, if necessary, repaired.
- Batteries must not be handled by children. Children can put batteries in their mouths and swallow them.
  If a battery has been swallowed, obtain medical assistance immediately.
- Always store batteries out of the reach of children! There is a danger that children could swallow batteries! Due to the poisonous content of batteries there is a danger to life!
- When charging batteries never leave the Universal Battery Charger unsupervised.

- The batteries could become hot during charging. NEVER touch hot batteries! There is a risk of being burnt! After charging, first of all remove the power adapter of the Rapid Battery Charger from the plug socket. Then allow the batteries to cool down before removing them from the Rapid Battery Charger.
- The Rapid Battery Charger, the supplied power adapter and the vehicle-adapter do not contain any user-serviceable components. Should the housing of these appliances (Rapid Battery Charger / Power adapter) be opened, the warranty expires! If repairs are needed, contact one of our service partners in your area. The addresses of our service partners can be found on the warranty card. This is supplied with the Universal Battery Charger.

⚠ *Thunder storms!*

Devices connected to mains power can be damaged during a thunder storm. If there is a thunder storm, always remove the mains plug from the socket.

For damage caused by ...

- opening the housings of the Rapid Battery Charger, power adapter or vehicle-adapter
- attempted repairs made by non-qualified personnel
- improper use of the Rapid Battery Charger, power adapter and/or the vehicle-adapter, no liability or warranty will be accepted!
- Leakage of battery acids can occur, especially with old batteries. You should remove all batteries from the Rapid Battery Charger if you do not intend to use it for an extended period. You can thus protect the Rapid Battery Charger from damage caused by leaking battery acids.

⚠ Notes on handling batteries

The device uses batteries. Please note the following on handling batteries:

⚠ *Risk of explosion!*

Do not throw batteries into a fire. Do not recharge batteries.

- Never open, solder or weld batteries.
  There is a risk of explosion and injury!
- Check batteries regularly. Leaking batteries can damage the device.
- If the appliance is not going to be used for long periods, remove the batteries.
- If batteries leak, put on protective gloves.
- Clean the battery compartment and contacts with a dry cloth.

Commissioning

Stationary operation

- Remove all components – Rapid Battery Charger, power adapter ❺, vehicle-adapter ❻ and batteries – from the packaging.
- Before taking the Rapid Battery Charger into use, check that all items are complete/available and free of visible damage.
- Place the Universal Battery Charger on a straight, level, scratch and slip resistant surface.
- Insert the low-tension plug of the power adapter ❺ into the power adapter connection ❶ on the Rapid Battery Charger.
- Compare the technical details with those of your power supplier. If they match, insert the power plug ❺ into a mains power socket The Rapid Battery Charger is now ready for use.

Mobile operation

With the supplied vehicle-adapter ❻ you can also connect the Rapid Battery Charger to ...

- the 12-V cigar lighter socket of a vehicle

or

- into the 12-V on-board power supply socket of a vehicle. Thereby, you simply use the vehicle-adapter ❻ instead of the power adapter ❺.

⚠ *Warning!*

Use the Rapid Battery Charger exclusively with the supplied vehicle-adapter F. The use of other vehicle-adapters could irreparably damage the Rapid Battery Charger! There is also a danger of fire!

To utilise the Rapid Battery Charger with the vehicle-adapter ❻ :

- Should a cigar lighter be inserted into the cigar-lighter socket:
  - Remove the cigar lighter.

ⓘ *Note:*

Also ensure that all possible soiling (e.g. remains of ash) is removed from the inside of the cigar lighter socket! Otherwise, it could lead to a malfunction in the operation of the Rapid Battery Charger with the vehicle-adapter ❻ !

- Insert the low-tension plug of the vehicle-adapter ❻ into the power adapter connection ❶ of the Rapid Battery Charger.
- Insert the vehicle-adapter ❻ into the cigar-lighter sokket. The Rapid Battery Charger is now ready for use.

⚠ *Important:*

Never leave the Rapid Battery Charger resp. the batteries in the vehicle! Under strong sunlight, and with a correspondingly heated vehicle interior, the Rapid Battery Charger could over-heat and be irreparably damaged. Additionally, the batteries could overheat and explode.
There is also a danger of fire!

ⓘ *Note:*

It is possible that the cigar-lighter only functions with a switched-on vehicle ignition. If you are unsure, consult the vehicle handbook.

⚠ *Caution!*

For vehicles in which the cigar lighter resp. on-board power sockets also function with a switched-off vehicle ignition:

Only use the Rapid Battery Charger with the engine running. Otherwise, the vehicle batteriy could be
completely discharged by the use of the Rapid Battery Charger!

Charging batteries

⚠ *Danger!*

Charge exclusively rapid rechargable batteries of the types "Ni-Cd" and "Ni-MH". NEVER recharge batteries of other types or non-rechargable
batteries. These are not suitable for recharging. This could irreparably damage the Rapid Battery
Charger and the inserted batteries.

Due to the charging current, only batteries with appropriate capacities may be charged:
- Ni-MH AA min. 2300mAh / AAA min. 800mAh
- Ni-Cd AA min. 800mAh / AAA min. 300mAh

Should an attempt be made to charge batteries with significantly lower capacities, the batteries could be destroyed.
There is also the danger of a fire as well as an explosion!

- Place the selector switch ❹ into the position Ni-MH if you want to charge Ni-MH batteries.
- Place the selector switch ❹ into the position Ni-Cd if you want to charge Ni-Cd batteries.
- Insert the batteries into the charging slots ❸ .

It is possible to charge from one to four individual batteries.

ⓘ *Note:*

Ensure that the batteries are inserted into the charging slots in accordance with their polarities. Otherwise, the batteries will not be charged.

- The charging process now begins. The Rapid Battery Charger has a control lamp ❷ for each cell in the charging slots ❸. The control lamps ❷ show the charging condition of the individual batteries.

The various displays have the following meanings:

- The control lamp ❷ blinks fast:
  - Checking the inserted batteries.

- Full and non-rechargable batteries are recognised. Remove the inserted batteries from the Rapid Battery Charger.

- The control lamp ❷ does not glow:
  - The batteries have not been inserted correctly into the charging slots ❸ .
  - The batteries are possibly defect.
  - The batteries do not correspond to the type setting of the selector switch ❹ (Ni-MH, Ni-Cd).
- The control lamp ❷ glows continuously:
  - The batteries are being charged.
- The control lamp ❷ blinks slowly:
  - The batteries are charged and the appliance has switched to "retention charging".

⚠ *Warning!*

The batteries will become hot during charging. NEVER touch hot batteries! There is a danger of being burnt!

- Remove the power adapter ❺ of the Rapid Battery Charger from the wall socket and allow the batteries to cool down.
  Afterwards you can remove the charged batteries from the Rapid Battery Charger.

Average charging times

Depending on the type, age and remaining charge in the batteries, the charging process can take various lengths of time. The average charging time can be taken from the following table. Take note however that the times given are only guiding values.

Type Typ AA		
Capacity	Ni-MH	Ni-Cd
2300 mAh	85 min.	---
1100 mAh	---	95 min.

Type Typ AAA		
Capacity	Ni-MH	Ni-Cd
800 mAh	75 min.	---
350 mAh	---	75 min.

Troubleshooting

The Rapid Battery Charger displays no functions

With mains power operation:

- Check to see if the low-tension plug on the cable of the power adapter ❺ is correctly inserted into the power adapter connection ❶ .
- Check to see if the power socket into which the power adapter ❺ has been inserted is "live". To do this, connect a different, functioning electrical appliance to the socket.

With operation over the vehicle-adapter:

- Check to see if the vehicle-adapter ❻ is correctly connected to the Rapid Battery Charger and the cigar-lighter socket.
- It is possible that the cigar-lighter only functions with a switched-on vehicle ignition. If you are unsure, consult the vehicle handbook.

The inserted batteries are not being charged:

- Check that the batteries are being inserted in accord with their polarity.
- Check to see if you have inserted batteries suitable for charging into the Rapid Battery Charger. Exclusively suitable for recharging are Ni-Cd and Ni-MH batteries with the sizes AA/Mignon and AAA/Micro and designated as suitable for rapid charging.
- Remove the power cable from the power socket and allow the appliance to cool down, as the temperature monitoring switch has possibly activated itself.

Other malfunctions

Make contact with one of our service partners close to you if ...

- the malfunction cannot be corrected as described above,
- or, when operating the Rapid Battery Charger, other malfunctions occur.

Cleaning

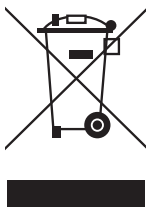
⚠ *Risk of injury from electric shock:*

- *Never immerse the device's parts into water or other liquids!*
- *Do not allow liquid to penetrate the housing.*

Cleaning the housing:

Clean the housing of the Rapid Battery Charger and the power adapter ❺ exclusively with a lightly moistened cloth. For stubborn soiling use a few drops of mild detergent on the lightly moistened cloth. Take steps to ensure that no moisture can permeate the Rapid Battery Charger/Power adapter ❺ when cleaning it! Never clean the insides of the charging slots ❸ with moist cloths. Instead, use a clean soft brush to clean them. Clean the battery compartment and contacts with a dry cloth.

Disposal



Never dispose of the device in the normal household rubbish. Dispose of the device using an approved disposal company or using local disposal facilities.
This product is subject to European Directive 2002/96/EC.
Please follow the currently valid regulations.
In case of doubt, contact your disposal facilities.

Disposal of batteries!

Batteries must not be disposed of in the household waste. Every consumer is legally obliged to dispose of batteries at a collection site of his community / city district or at a retail store.
This obligation is intended to ensure that batteries are disposed of in an environmentally safe fashion. Only dispose of batteries when they are fully discharged.

Disposal of packaging

Ensure all packaging materials are disposed in an environmentally friendly manner.

Warranty and Service

The warranty for this appliance is for 3 years from the date of purchase. The appliance has been manu-factured with care and meticulously examined before delivery. Please retain your receipt as proof of purchase. In the case of a warranty claim, please make contact by telephone with our service depart-ment. Only in this way can a post-free despatch for your goods be assured.
The warranty covers only claims for material and maufacturing defects, not for wearing parts or for damage to fragile components. This product is for private use only and is not intended for commercial use.
The warranty is void in the case of abusive and im-proper handling, use of force and internal tampe-ring not carried out by our authorized service branch. Your statutory rights are not restricted in any way by this warranty.

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